

Standard Education in Europe

**IEEE – CNIS
Standards Education Workshop
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Content

- Quick review of European Standardization
- Education about Standards in Europe
- JWG EaS
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European Standardization Organizations

– CEN

European Committee for Standardization

- Covers a lot of sectors

– CENELEC

European Committee for Electro-Technical Standardization

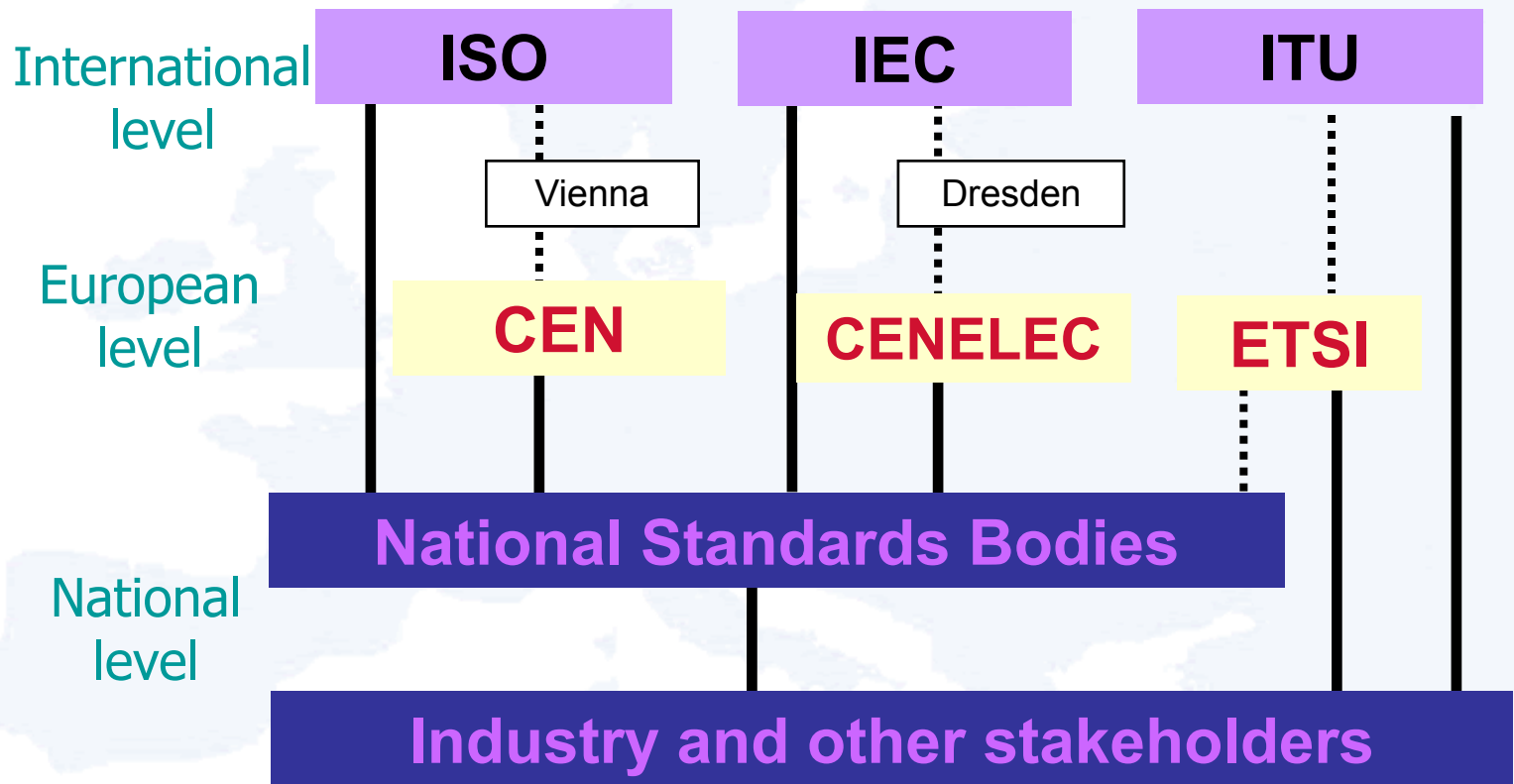
- Covers mainly the electro-technical sector

– ETSI

European Telecommunications Standards Institute

- Covers mainly telecommunication and electronic communication networks and services

Standardization: Networking on a Global Level



Europe and China are Working Together

- **CEN, CENELEC, ETSI and SAC** (Standardization Administration of China) signed a MoU in 2008
 - **SESEC** (since 2006) promote European system and values
 - Inform about development in China (as in Europe)
 - Help sector and industry
- **China – Europe Standards Information Platform (CESIP)**
 - Website: www.eu-china-standards.eu
- **Bilateral activities** between ESO members and Chinese bodies

Education about Standards

- Education about standards has become a topic of interest following the publication of the 2008 “Conclusions of the European Competitiveness Council on standardization and innovation”
- Conclusion 27 “encourages the Member States to improve the position of standardisation in education programmes and academic curricula, in order to familiarise students with the strategic benefit and challenges of standardisation, drawing on the expertise of standardisation bodies”.

First Steps

An initial CEN-CENELEC meeting early 2009 informed the Technical Boards on:

- different approaches in national members participating
- Global and European activities of interest (ICES, EURAS)
- Interest to continue the activity

Education about Standardization

- The Technical Boards expressed strong interest and asked the group to draft the “Terms of Reference” for a permanent group, to involve all three ESOs
- The Joint CEN-CENELEC-ETSI Working Group “Education about Standardization” met for the first time on 9 March 2010

Academic Education

Chairs for Standardization:

- Helmut Schmidt University, Hamburg
Prof. Dr.-Ing. Wilfried Hesser
- Erasmus University / RSM, Rotterdam
Prof. Henk de Vries

Related Chair for Innovation:

- Edinburgh University
Prof. Robin Williams

JWG-EaS Terms of Reference (EaS = Education about Standards)

Objective and expected impact (1/2)

The JWG-EaS shall foster best practice in education about standardization in Europe.

The JWG-EaS will help to:

- achieve a significant increase in the number of people who have a fair and positive knowledge of standardization, its characteristics and added value;

JWG-EaS Terms of Reference

Objective and expected impact (2/2)

- improve the understanding of the necessity of standardization amongst government officials, business executives and academia;
- increase the competency of those persons seeking to participate in the standards making process.

A Policy on Education about Standardization

A first priority for the JWG-EaS is to develop a concerted policy on education about standardization, taking into consideration **Strategic goal 4** of the Final Report of the EXPRESS Group:

“To promote the inclusion of standardization practices and benefits in higher education and encourage the development of studies and surveys to assess, quantify and communicate the economic and social benefits of standards.”

Integration of Existing Initiatives

- EURAS (www.euras.org)
European Academy for Standardization
 - A network of European researchers in the field of standardization
 - Main tool: meetings (more or less on annual basis), next meeting 1-2 July in Lausanne, Switzerland
 - Mailing list for all
- ICES (www.standards-education.org)
International Cooperation for Education about Standardization
 - Board: John Hill, Tineke M. Egyedi, Mingshun Song
 - ICES Workshop 5-6 July in Geneva, Switzerland
 - Similar to EURAS

Policy Recommendations (1/3)

SG 4: Recommendations (EXPRESS Report)

4.1 EC/EFTA, Members States, **ESOs**, NSBs: Produce targeted information

- to increase awareness of standardization and its benefits to all key stakeholders, including academia and societal groups,
- to encourage active participation, and
- to ensure the effective and influential participation of these stakeholders

4.2 EC/EFTA, Member States: Include standardization in the curricula of European universities

Policy Recommendations (2/3)

SG 4: Recommendations (EXPRESS Report)

- 4.3 **ESOs**, NSBs: Provide 'teaching themes' for technical schools/colleges/universities and an explanatory memorandum for the effective use of standards on web sites.
- 4.4 EC/EFTA, **ESOs**, NSBs: Undertake pilot projects in the area of standards education and include a consolidation of existing projects and tools.

Policy Recommendations (3/3)

SG 4: Recommendations (EXPRESS Report)

4.5 **ESOs, NSBs:** Raise awareness of the strategic importance of standardization in order to achieve a desired ‘talent pool’ of national and company experts such that NSBs and the ESOs sustain their capability to provide expert participation in priority areas, providing attractive conditions for active participation.

Whom to Reach

An increased awareness of the importance of standards is to be sought in a number of specific target areas:

- society as a whole
 - standardization should be seen as an integral – and essential – part of everyday life
- education providers
 - should ensure that all levels of formal education include elements of standards and standardization in the curriculum

EU – China Cooperation

The Players:

- In European Standardization
 - CEN, CENELEC, ETSI, NSB (national standard bodies)
 - EU Project Facilities (STIS, SME Centre, PDSF, etc.)
- In Academia
 - Helmut Schmidt University, Prof. W. Hesser
 - Erasmus University: Prof. H. de Vries
 - Endinburgh University: Prof. Robin Williams
 - RWTH Aachen: Kai Jakobs
 - Oslo University: Haakan Ursin Steen
 - Fraunhofer Institut: Dr. Knut Blindt

Next Steps

- considering objectives, content, target audience for a joint seminar on Education about Standardization
- presence at EURAS and ICES events early July 2010 in Switzerland
- concept and content for a repository of best practices and teaching materials
- strengthened cooperation with China

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CEN: www.cen.eu / CENELEC: www.cenelec.eu / ETSI: www.etsi.org